

AC & EC Axial fans

for transformer cooling

ebmpapst

The engineer's choice

AC & EC Axial fans for transformer cooling

Direct drive axial fans in AC and EC versions are a big part of the ebmpapst world. Renowned for their efficiency, low noise and reliability, these modular transformer fan designs are assembled from durable ebmpapst components. These include proven external rotor motors, technology leading HyBlade® composite impellers, combination fan guard/motor support and round venturi with intake radius and exhaust side flange for optimum performance and easy mounting. For additional benefits like speed control and greater efficiency at turndown, upgrades from AC asynchronous motors to ebmpapst GreenTech EC motors are available across the fan range.



IP54 rated and corrosion protected for tough outdoor environments



Venturi:

- Galvanized sheet metal
- Special coating for salt fog environment (withstand 720 hours according to ISO 12944 class C5M)
- Color: "transformer grey" RAL9006

Air inlet:

- Harmonized with the impeller for highest aerodynamic efficiency level

Terminal box:

- AC versions, aluminum die-cast
- Special coating for salt fog environment (withstand 720 hours according to ISO 12944 class C5M)

Fan guard:

- Galvanized steel
- Special coating for salt fog environment (withstand 720 hours according to ISO 12944 class C5M)



External rotor motor allows positioning of the motor directly in the airstream for a very compact design with high power density.



Impeller:

- HyBlade® composite design allows great flexibility in blade shape and winglet geometry for optimizing air performance and acoustic noise behavior.

External rotor motor cooled by air stream. Die-cast aluminum housing with special coating for salt fog resistance.

Bolt circle for customer mounting on exhaust side

Exhaust side fan guard available as an option

Air flow direction

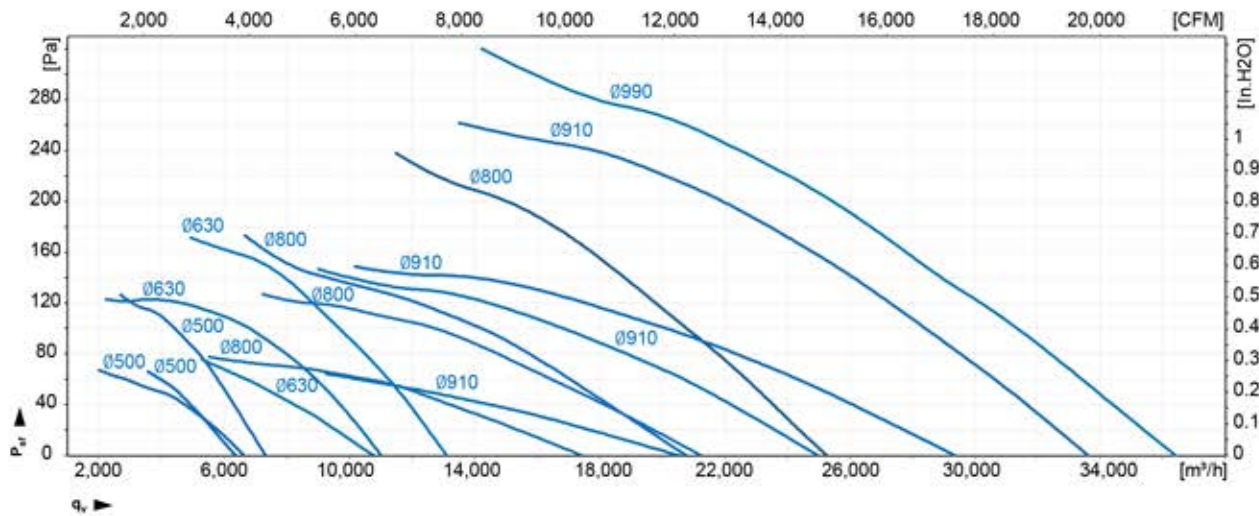


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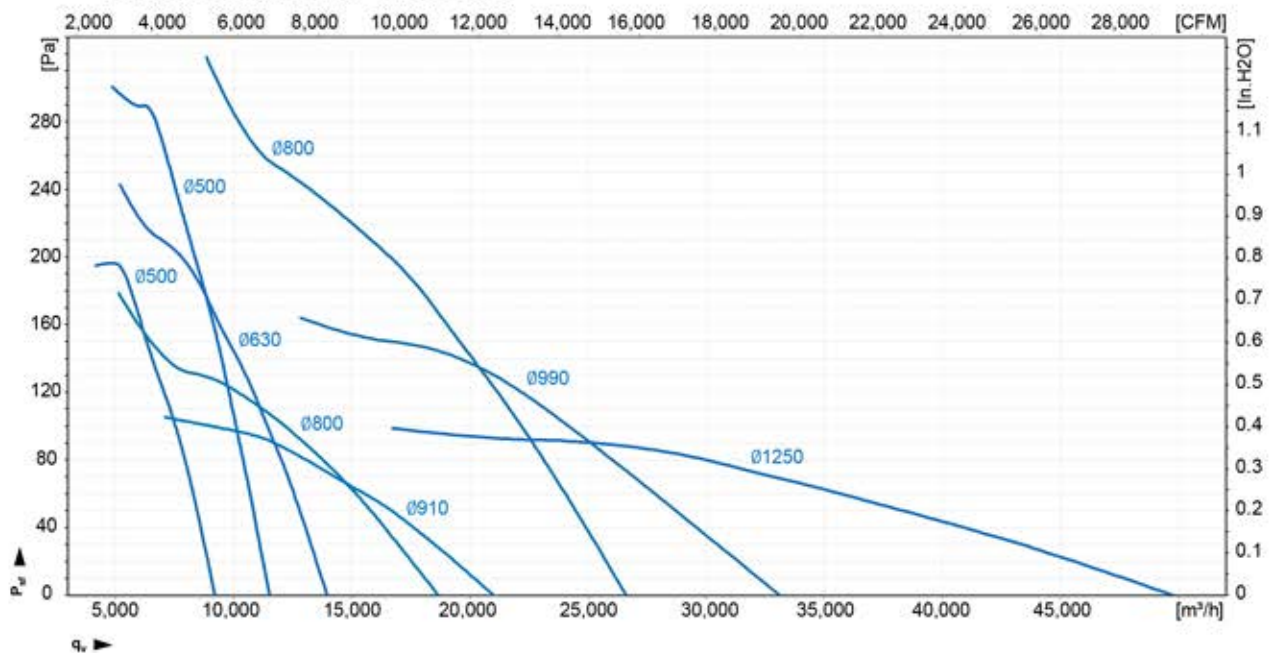
Additional features available on EC fans

- Variable speed
- Control interface including Modbus
- Motor protection
- Soft start
- Power factor control
- Alarm relay
- DC supply for external sensor

Product performance range - 60Hz AC



Product performance range - GreenTech EC



Standard supply voltage is 3-phase 480 VAC (Δ/Y , for high/low speed) for 60Hz AC versions and 3-phase 380-480 VAC for EC models. Other options may be possible.